## **CLAIMS**

What is claimed is:

1. (currently amended) A direct heating tube adapted for chromatography which directly heats a fluid during the passage of the fluid, wherein in a desired portion of the tube to be heated, a second heated tube which is connected to a first heated tube is provided outside of and fixed to the first heated tube,

wherein the second heated tube and the first heated tube are directly heated by being energized, and

wherein the second heated tube additionally heats the first heated tube by radiation of heat from the second heated tube.

- 2. (previously presented) The direct heating tube according to claim 1, wherein the second heated tube is provided along a full length of the desired portion of the direct heating tube to be heated.
- 3. (previously presented) The direct heating tube according to claim 1, wherein the second heated tube is provided in both end portions of the desired portion of the direct heating tube to be heated.
- 4. (previously presented) The direct heating tube according to claim 1, wherein the second heated tube is provided in one end portion of the desired portion of the direct heating tube to be heated.
- 5. (previously presented) The direct heating tube according to claim 1, wherein an electrode portion is connected to the second heated tube.
- 6. (previously presented) The direct heating tube according to claim 5, wherein an electrode portion is connected directly to the second heated tube.

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7. (previously presented) The direct heating tube according to claim 1, wherein a change in

a wall thickness of the first heated tube and/or the second heated tube is provided along the

length of the first and/or second heated tubes.

8. (previously presented) The direct heating tube according to claim 1, wherein the direct

heating tube is a column or a heat tube.

9. (withdrawn, currently amended) A method of heating a fluid passing through a tube

adapted for chromatography, wherein in a desired portion of the tube to be heated, by use of a

direct heating tube which is constructed in such a manner that a second heated tube connected

to a first heated tube is provided outside the first heated tube, a fluid passing through the tube is

heated by connecting an electrode portion to the tube and directly heating the second heated

tube and the first heated tube by being energized, and additionally heating the first heated tube

by radiation heat from the second heated tube.

10. (previously presented) The direct heating tube according to claim 5, wherein a change in

a wall thickness of the first heated tube and/or the second heated tube is provided along the

length of the first and/or second heated tubes.

11. (previously presented) The direct heating tube according to claim 10, wherein the direct

heating tube is a column or a heat tube.

12. (previously presented) The direct heating tube according to claim 2, wherein the direct

heating tube is a column or a heat tube.

13. (cancelled)

14. (previously presented) The direct heating tube according to claim 4, wherein the direct

heating tube is a column or a heat tube.

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15. (previously presented) The direct heating tube according to claim 5, wherein the direct

heating tube is a column or a heat tube.

16. (cancelled)

17. (previously presented) The direct heating tube according to claim 7, wherein the direct

heating tube is a column or a heat tube.

18. (cancelled)

19. (previously presented) The direct heating tube according to claim 4, wherein an

electrode portion is connected to the second heated tube.

20. (previously presented) The direct heating tube according to claim 19, wherein the direct

heating tube is a column or a heat tube.

21. (previously presented) The direct heating tube according to claim 4, wherein a change in

a wall thickness of the first heated tube, the second heated tube, or both is provided along the

length of the first and/or second heated tubes.

22. (currently amended) The direct heating tube [[of]] according to claim 1, wherein the

second heated tube concentrically surrounds the first heated tube and is connected to the first

heated tube by a flange, such that the direct heating tube has a double tube configuration in the

region of the second heated tube.

23. (currently amended) The direct heating tube [[of]] according to claim 1, wherein the

second heated tube eoncentrically surrounds the first heated tube, and establishes a void

between the first and second heated tubes is fixed to the first heated tube, and the second heated

tube is held outside the first heated tube at a predetermined distance.

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